FIG. 1

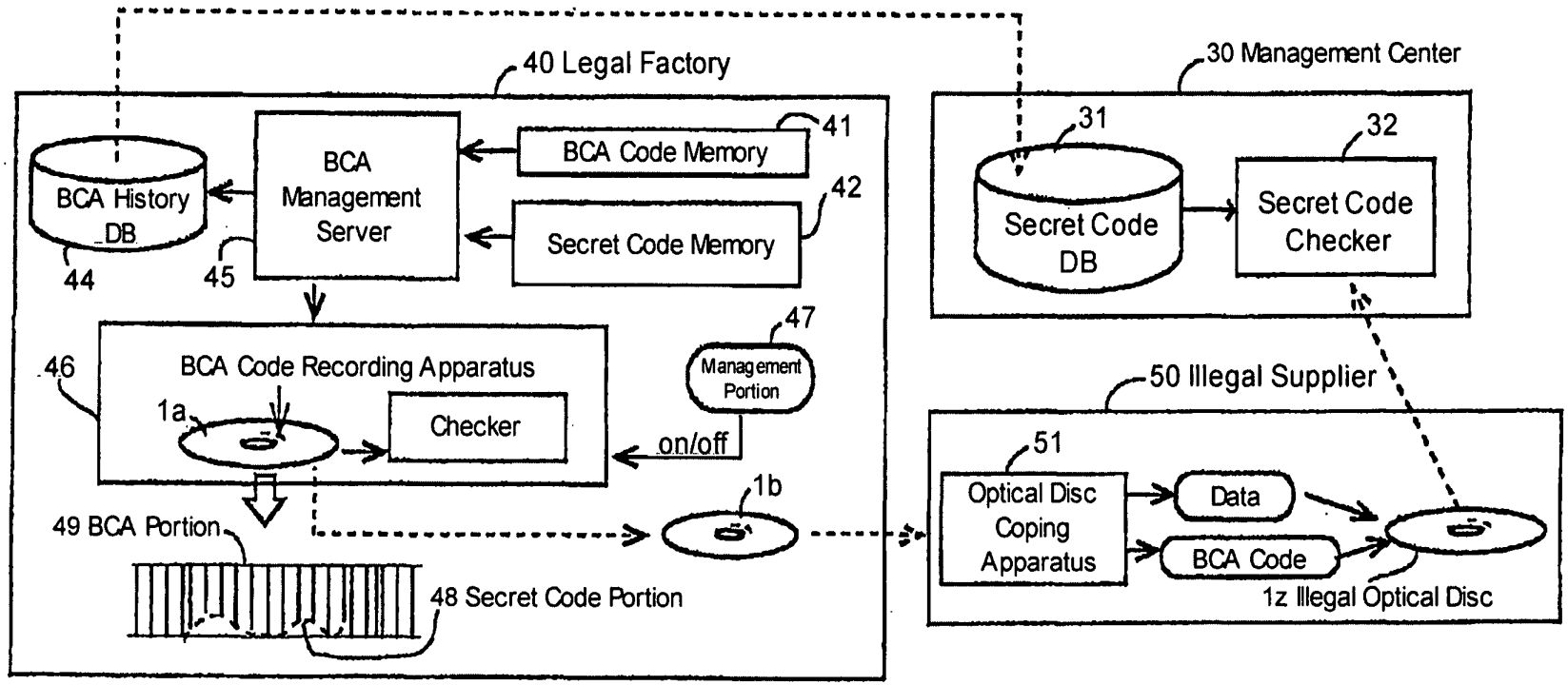
40 Legal Factory
30 Management Center
41
BCA Code Memory
BCA History DB
BCA Management Server
42
Secret Code Memory
31
32
Secret Code DB
Secret Code Checker
44
45
47
Management Portion
46
BCA Code Recording Apparatus
1a
Checker
on/off
50 Illegal Supplier
51
Optical Disc Coping Apparatus
Data
BCA Code
1b
49 BCA Portion
48 Secret Code Portion
1z Illegal Optical Disc

FIG. 2 (a)

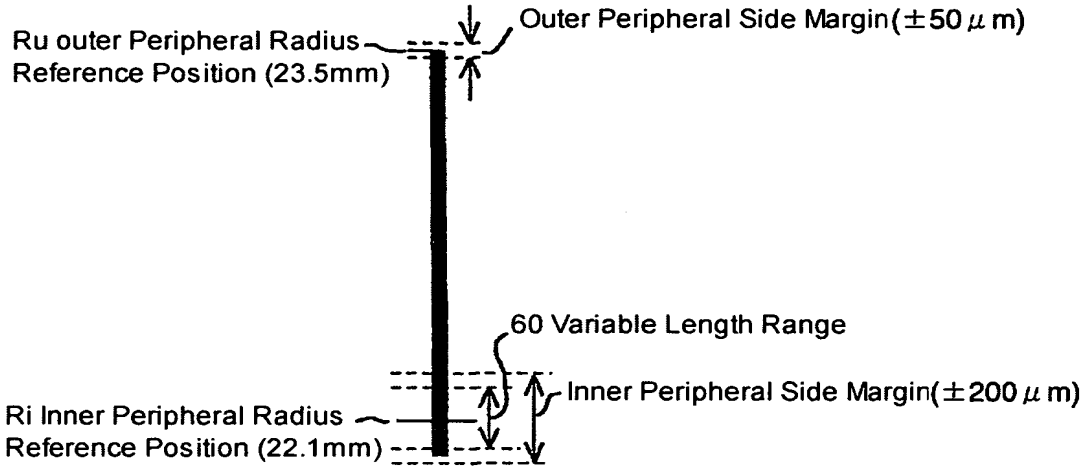
Ru outer Peripheral Radius
Reference Position (23.5mm)
Outer Peripheral Side Margin(±50μm)
60 Variable Length Range
Inner Peripheral Side Margin(±200μm)
Ri Inner Peripheral Radius
Reference Position (22.1mm)

FIG. 2 (b)

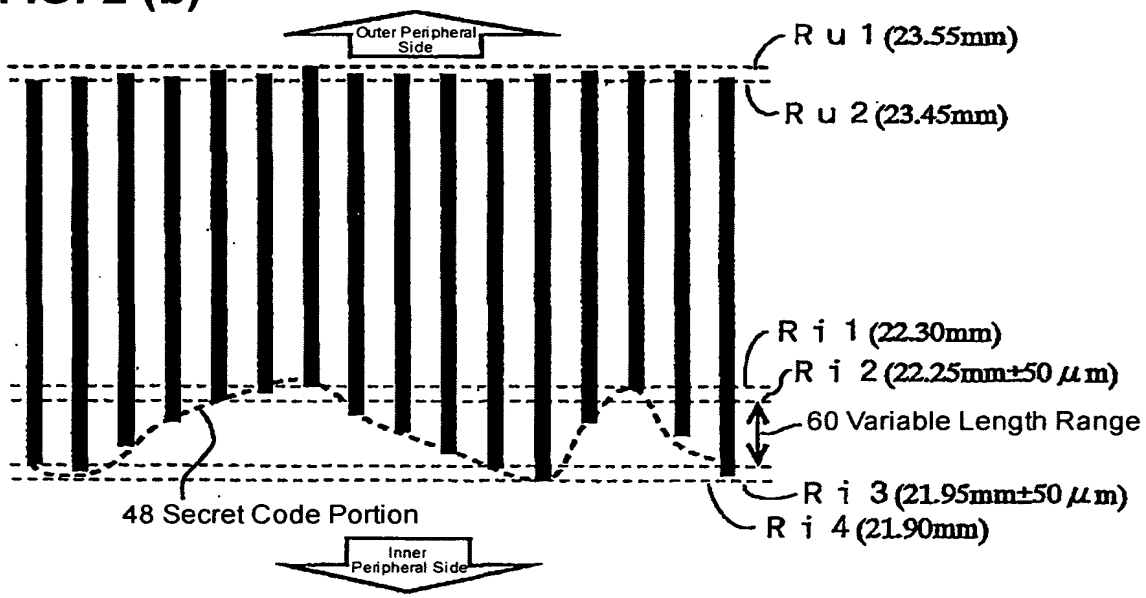
Outer Peripheral Side
Ru 1 (23.55mm)
Ru 2 (23.45mm)
Ri 1 (22.30mm)
Ri 2 (22.25mm±50μm)
60 Variable Length Range
Ri 3 (21.95mm±50μm)
Ri 4 (21.90mm)
48 Secret Code Portion
Inner Peripheral Side

FIG. 3(a)

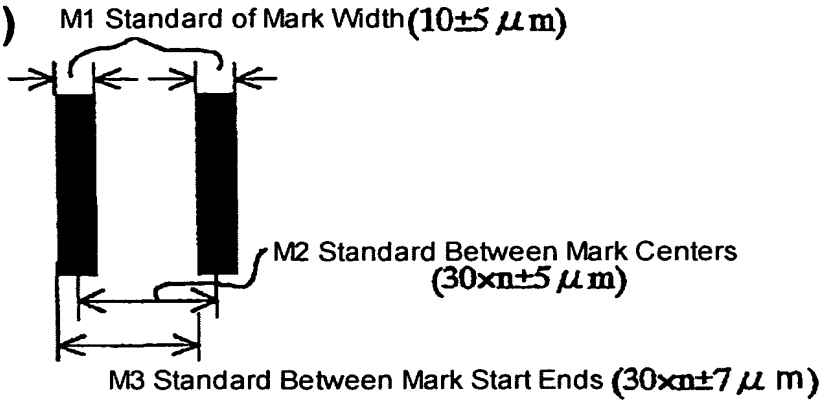

FIG. 3(b)

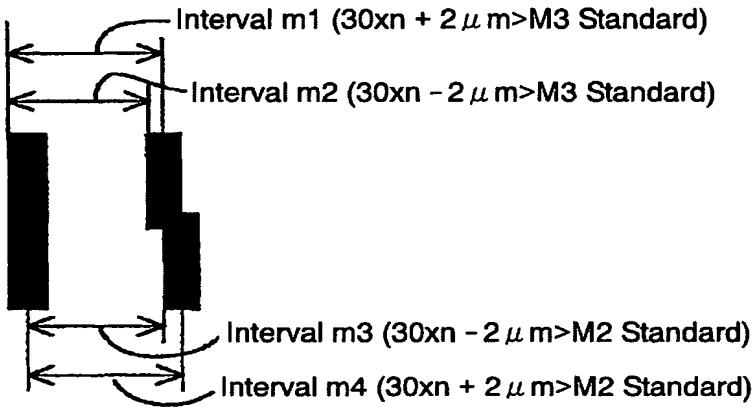

FIG. 3(c)

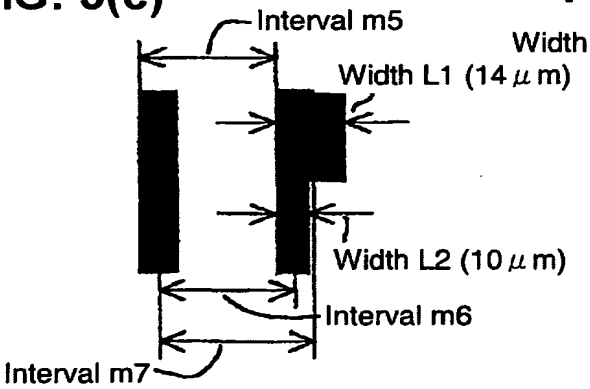

FIG. 3(d)

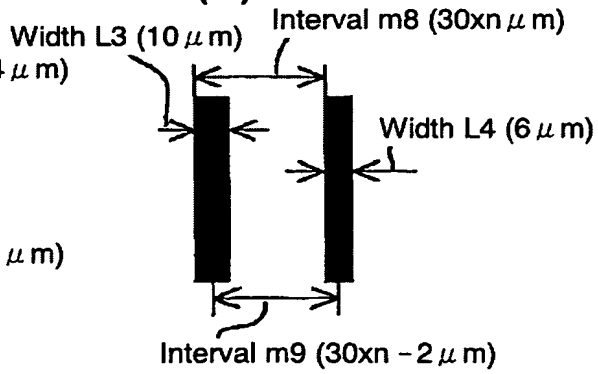

FIG. 4

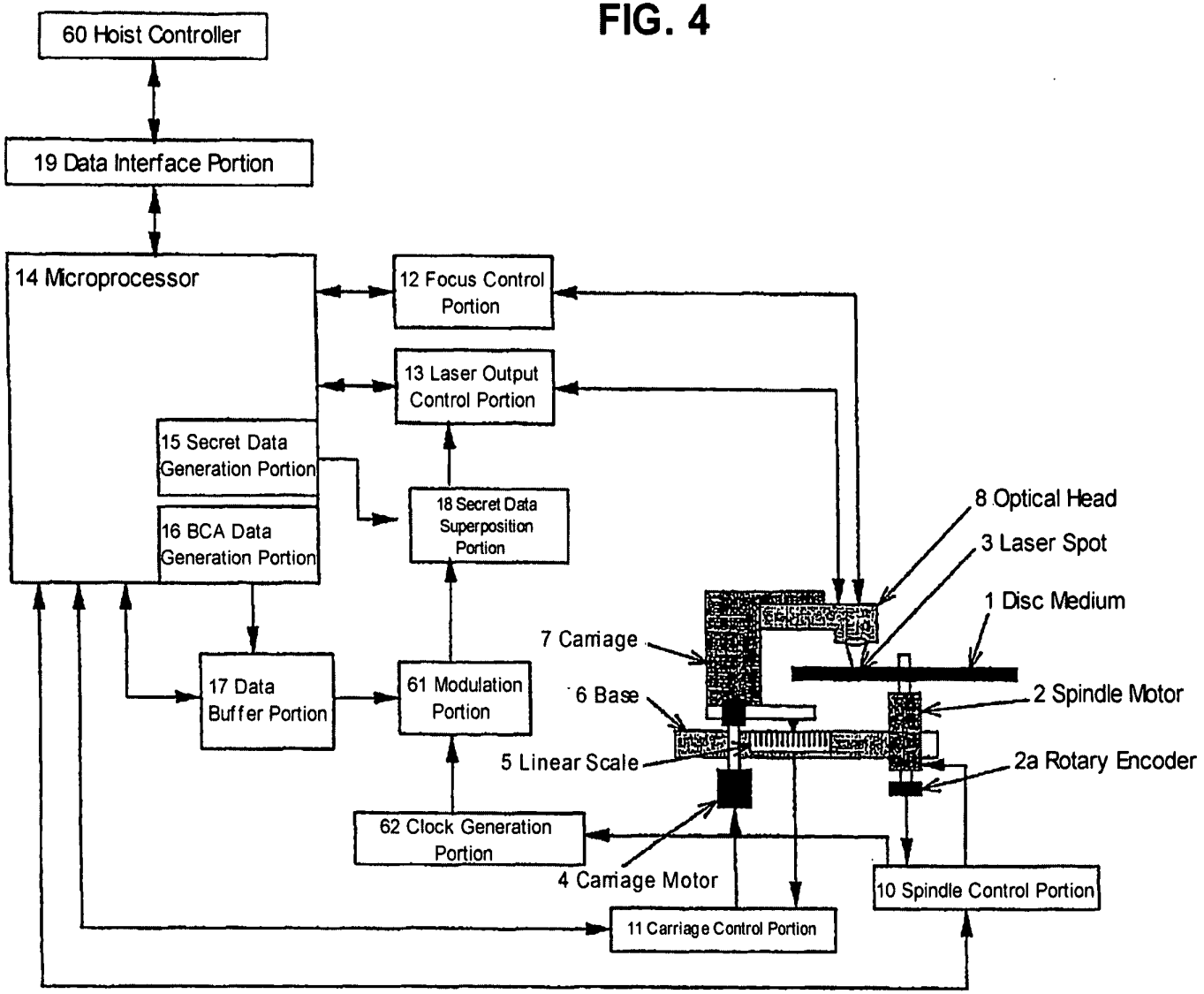
60 Hoist Controller
19 Data Interface Portion
14 Microprocessor
12 Focus Control Portion
13 Laser Output Control Portion
15 Secret Data Generation Portion
16 BCA Data Generation Portion
18 Secret Data Superposition Portion
17 Data Buffer Portion
61 Modulation Portion
62 Clock Generation Portion
11 Carriage Control Portion
10 Spindle Control Portion
8 Optical Head
3 Laser Spot
1 Disc Medium
7 Carriage
6 Base
2 Spindle Motor
5 Linear Scale
2a Rotary Encoder
4 Carriage Motor

FIG. 5

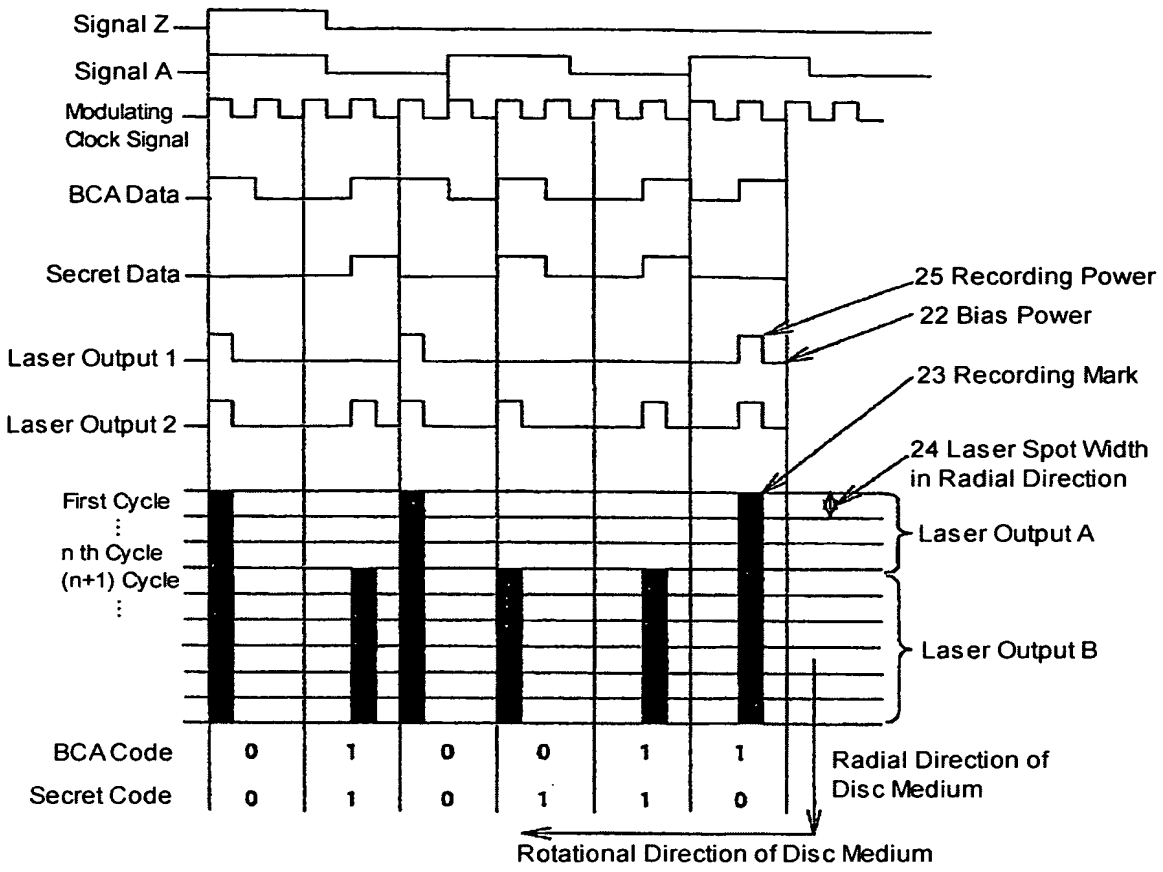
Signal Z
Signal A
Modulating Clock Signal
BCA Data
Secret Data
Laser Output 1
Laser Output 2
First Cycle
n th Cycle
(n+1) Cycle
25 Recording Power
22 Bias Power
23 Recording Mark
24 Laser Spot Width in Radial Direction
Laser Output A
Laser Output B
BCA Code
Secret Code
0 1 0 0 1 1
0 1 0 1 1 0
Radial Direction of Disc Medium
Rotational Direction of Disc Medium

FIG. 6

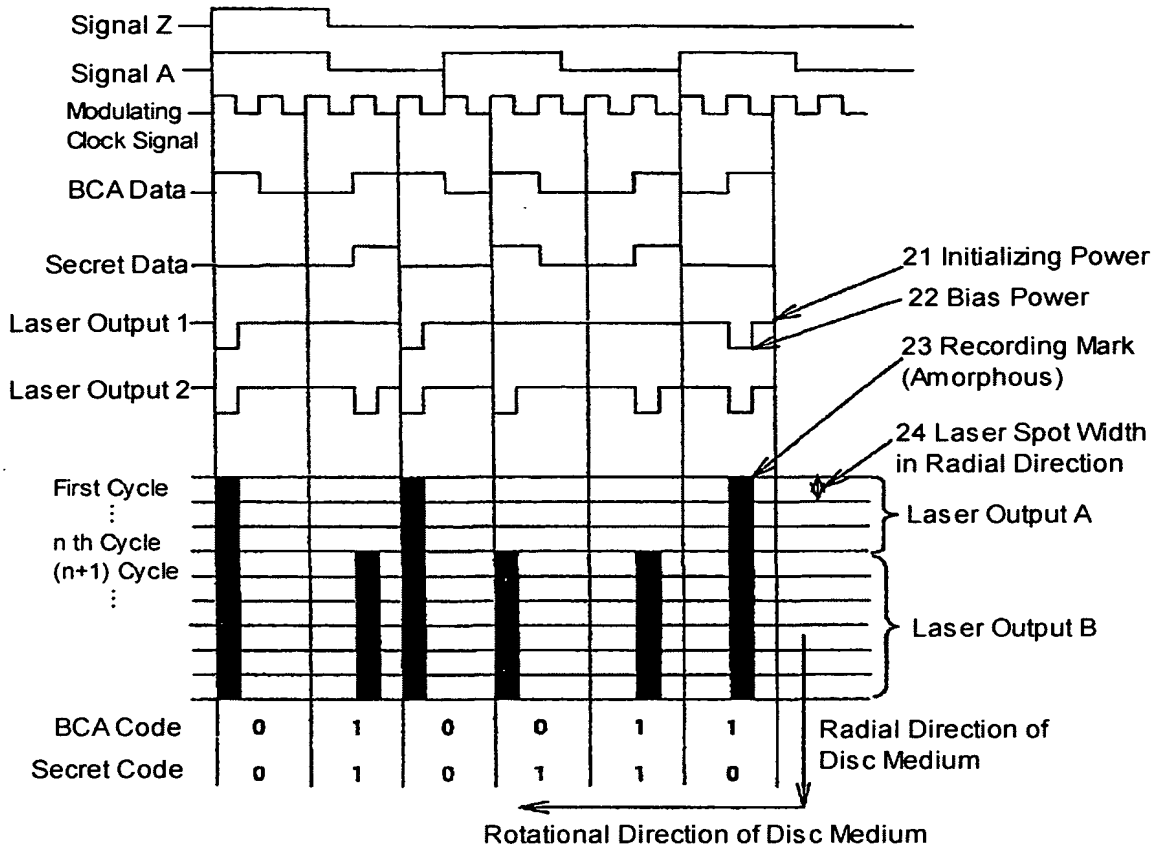
Signal Z
Signal A
Modulating Clock Signal
BCA Data
Secret Data
Laser Output 1
Laser Output 2
21 Initializing Power
22 Bias Power
23 Recording Mark (Amorphous)
24 Laser Spot Width in Radial Direction
First Cycle
n th Cycle
(n+1) Cycle
Laser Output A
Laser Output B
BCA Code 0 1 0 0 1 1
Secret Code 0 1 0 1 1 0
Radial Direction of Disc Medium
Rotational Direction of Disc Medium

FIG. 7

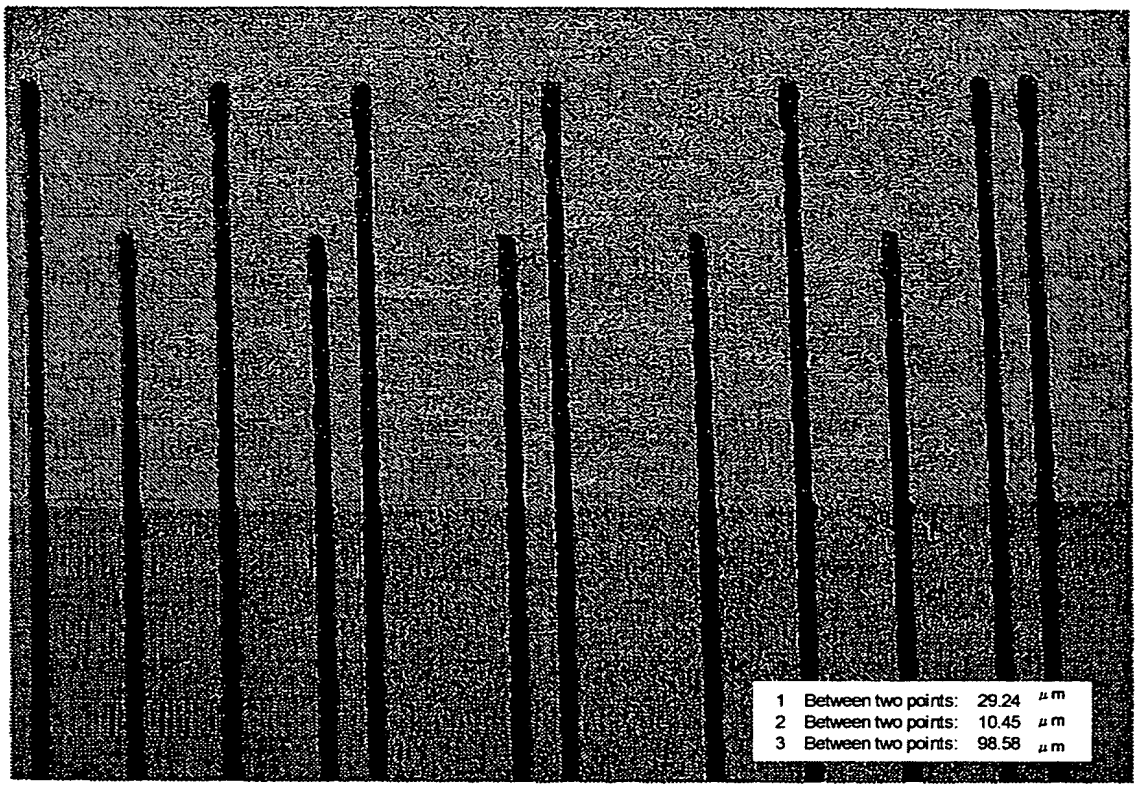

FIG. 8